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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M25)	Compressive Strength(7days and 28days)	5 sets /51-100 cum	52.32	10	10
9	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.46	2	2

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2023-06-30-34** **Date: 27-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, 1st Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-23
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2021
Date of test	:	22-02-23

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	75.99	32.5	33.1
2	198.48	159.64	75.25	33.8	
3	199.54	159.54	75.48	32.5	
4	197.68	159.22	75.55	33.5	
5	198.11	159.87	75.32	32.8	
6	198.18	160.02	75.11	33.4	
7	198.45	158.99	75.98	33.2	
8	197.22	159.22	75.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2023-06-30-34** **Date: 27-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-23
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	22-02-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	151	203	12414	22.367	1801.6	1809.7	Not less than 1800Kg/m^3
2	401	152	198	12068	22.009	1823.7		
3	401	150	203	12210	22.026	1803.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Lab ID : **CP-2023-06-30-34** **Date: 27-02-23**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	151	199	
2	403	149	200	
3	402	152	202	
4	403	153	199	
5	399	152	200	
6	404	151	203	
7	404	151	199	
8	404	152	203	
9	399	152	200	
10	402	151	199	
11	403	152	201	
12	403	150	199	
13	404	150	200	
14	404	153	201	
15	400	151	201	
16	404	150	202	
17	402	152	200	
18	403	150	203	
19	402	150	201	
20	403	149	203	
Average of 20	402	151	201	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-30-34**

Date: 24/02/2023

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no - 03 of yelahanka Satellite town sub division

Agency : SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-23

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Column Concrete	M25	17/02/2023	24/02/2023	151.23 X 151.30 X 151.14	22881	8.607	542.6	23.7	23.0
2	Column Concrete	M25	17/02/2023	24/02/2023	150.24 X 150.37 X 151.74	22592	8.910	512.5	22.7	
3	Column Concrete	M25	17/02/2023	24/02/2023	149.28 X 151.64 X 151.03	22637	8.196	511.2	22.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-30-34** **Date: 17/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no - 03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-23
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Column Concrete	M25	17/02/2023	17/03/2023	151.04 X 149.73 X 150.28	22616	8.923	626.3	27.7	27.3
2	Column Concrete	M25	17/02/2023	17/03/2023	149.39 X 150.51 X 150.21	22484	8.504	589.5	26.2	
3	Column Concrete	M25	17/02/2023	17/03/2023	149.35 X 149.75 X 151.40	22366	8.966	627.5	28.1	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2023-06-30-34** **Date: 07-03-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP,
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-03-23
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	04-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	86	86	8.6	91.4	90-100
3	1.18 mm	202	288	28.8	71.2	70-100
4	600 micron	144	432	43.2	56.8	40-100
5	300 micron	114.5	546.5	54.7	45.4	5-70
6	150 micron	413.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-06-30-34** **Date: 07-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-30-34** **Date: 08-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/02/2023

Lab ID	:	**CP-2023-06-30-34**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no - 03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-02-23
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	07/02/2023	14/02/2023	151.97 X 151.57 X 151.72	23035	8.603	538.7	23.4	23.0
2	Plinth Beam Concrete	M25	07/02/2023	14/02/2023	149.89 X 151.23 X 150.05	22668	8.561	518.3	22.9	
3	Plinth Beam Concrete	M25	07/02/2023	14/02/2023	150.68 X 150.82 X 151.86	22726	8.493	518.3	22.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-30-34

Date: 07/03/2023

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no - 03 of yelahanka Satellite town sub division

Agency : SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-02-23

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Plinth Beam Concrete	M25	07/02/2023	07/03/2023	151.70 X 149.17 X 151.50	22628	8.510	631.7	27.9	27.5
2	Plinth Beam Concrete	M25	07/02/2023	07/03/2023	151.44 X 150.48 X 150.76	22788	8.784	600.0	26.3	
3	Plinth Beam Concrete	M25	07/02/2023	07/03/2023	150.26 X 149.16 X 151.97	22413	8.638	633.1	28.2	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-06-30-34 **Date: 11/04/2023**

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no - 03 of yelahanka Satellite town sub division

Agency : SRI. SAMBHASHIVA REDDY C, NO.14, 1st Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M25	14/03/2023	11/04/2023	150.03 X 149.02 X 150.20	22356	8.561	621.1	27.8	27.7
2	Drain Bottom Raft Concrete	M25	14/03/2023	11/04/2023	151.76 X 151.66 X 150.66	23015	8.298	609.1	26.5	
3	Drain Bottom Raft Concrete	M25	14/03/2023	11/04/2023	151.53 X 150.98 X 151.14	22878	8.635	658.9	28.8	

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-06-30-34**
		Date: 14-01-23
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	13-01-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No. CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-06-30-34**
		Date: 20-03-23
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no - 03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-23
Sample Type /Size	:	Precast Cover Slab - 100mm thickness
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	15/03/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.48	100.52	1.132	4714	80.9	17.2	16.0	20.0
2	Cover Slab-2	77.49	100.51	1.228	4715	82.6	17.5	16.3	20.4
3	Cover Slab-3	77.51	10.48	1.138	4718	81.8	17.3	16.1	20.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-30-34** **Date: 30/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no - 03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-23
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	23/01/2023	30/01/2023	151.49 X 151.03 X 151.23	22879	8.819	543.2	23.7	23.2
2	Footing Concrete	M25	23/01/2023	30/01/2023	151.88 X 151.86 X 150.82	23064	8.208	526.4	22.8	
3	Footing Concrete	M25	23/01/2023	30/01/2023	149.95 X 151.14 X 150.17	22664	8.369	519.4	22.9	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : **CP-2023-06-30-34** **Date: 16-01-23**

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division,

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore

Project Name : Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division

Agency : SRI SAMBHASHIVA REDDY C, NO 14, 1st Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032

Customer's Reference : BBMP/EE/YNK D/EPMT-12/W O/69/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-23

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 14-01-23

Environmental Conditions during test : Temperature 26°C
Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.63	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-30-34** **Date: 16-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	566	566	3.8	96.2	90-100
3	20 mm	4899	5465	36.4	63.6	30-70
4	10 mm	7170	12635	84.2	15.8	10-35
5	4.75 mm	2113	14748	98.3	1.7	0-5
6	Pan	252	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-30-34** **Date: 16-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	198	198	4.0	96.0	90-100
3	10 mm	3151	3349	67.0	33.0	25-55
4	4.75 mm	1456	4805	96.1	3.9	0-10
5	Pan	195	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-06-30-34** **Date: 16-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall to Govt School at 707 SFS 4th phase Yelahanka new town in ward no -03 of yelahanka Satellite town sub division
Agency	:	SRI. SAMBHASHIVA REDDY C, NO:14, Ist Floor, 2nd Main, 6th Cross, Manorayanapalya, R T Nagar Post, BANGALORE-560032
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/69/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	13-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	33	33	3.3	96.7	90-100	90-100	90-100	95-100
3	2.36 mm	49	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	240	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	220	542	54.2	45.8	15-34	35-59	60-79	80-100
6	300 micron	190	732	73.2	26.8	5-20	8-30	12-40	15-50
7	150 micron	188	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

CIVIL Pro
Sig.....
Date.....
BANGALORE

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10	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
11	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
12	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬ ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106